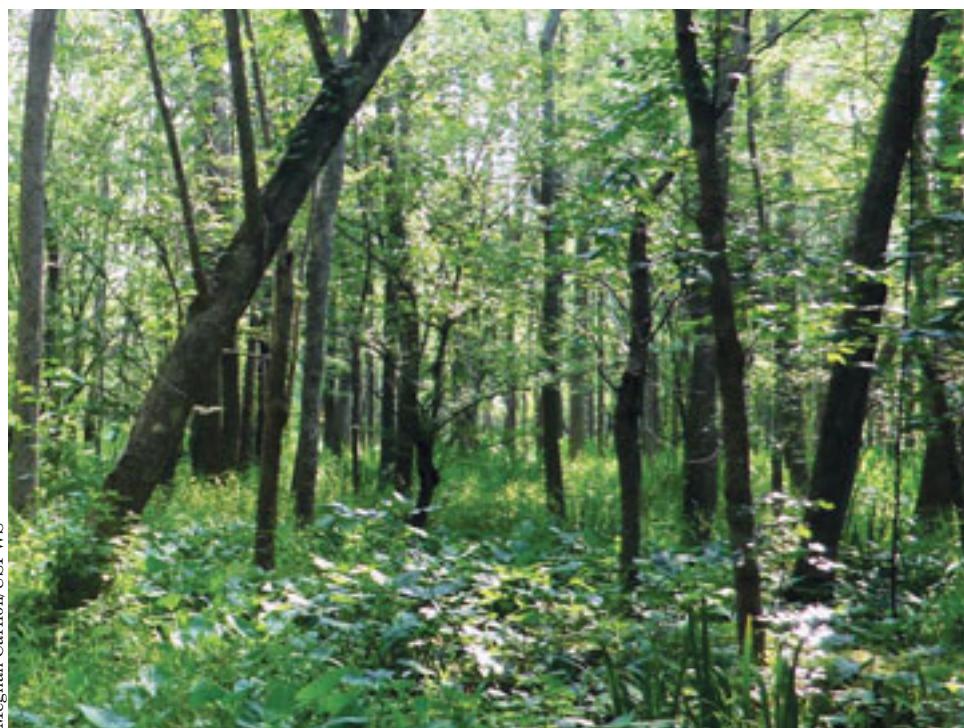


Appendix A



Meghan Carfoli/USFWS

Tidal swamp forest

Species and Habitats of Conservation Concern Known, or Potentially Occurring on Presquile National Wildlife Refuge

Table A.1. Species and Habitats of Conservation Concern Known, or Potentially Occurring on Presquile National Wildlife Refuge¹

Species	Seasons at Presquile NWR						USFWS Birds of Conservation Concern ⁶	Federal Trust Fish VASWAP Priority ⁷	North Atlantic Shorebird Plan ⁸	North American Waterbird Plan ⁹	Waterfowl Management Plan ¹⁰	USFWS Priority Fisheries ¹¹	TNC Chesapeake Bay Lowlands Ecoregional Plan ¹²
	Spring	Summer	Fall	Winter	Federal T&E ²	VA T&E ³	BCR 30 ⁴	PIF 44 ⁵					
WATERBIRDS													
American Bittern*	x	x	x	x			M	2	X	II			2
Black-crowned Night Heron*	x	x	x	x			M			III		M	1
Bonaparte's Gull*	x		x	x								M	
Caspian Tern*	x	x	x					5				L	
Cattle Egret*	x	x	x									NR	
Clapper Rail							H	1B		IV			
Common Moorhen								5					
Double-crested Cormorant*	x	x	x	x								NR	
Forster's Tern*	x	x	x	x			H	5		IV		M	
Glossy Ibis*	x						H	5		III		L	
Great Black-backed Gull*	x		x	x								NR	
Great Blue Heron*	x	x	x	x				5				NR	1
Great Cormorant												M	
Great Egret*	x	x	x	x				5				NR	1
Green Heron*	x	x	x	x						IV		L	1
Herring Gull*	x	x	x	x								L	
Horned Grebe*	x		x	x			H		X	IV			
Iceland Gull									X			L	
King Rail*	x	x	x				M	1B		II			
Laughing Gull*	x	x	x	x								NR	
Lesser Black-backed Gull			x	x								M	
Little Blue Heron*	x	x	x				M	5		II		H	1
Pied-billed Grebe*	x		x	x				5	X				
Ring-billed Gull*	x	x	x	x								NR	

Species	Seasons at Presquile NWR				Federal T&E ²	VA T&E ³	BCR 30 ⁴	PIF 44 ⁵	USFWS Birds of Conservation Concern ⁶	Federal Trust Fish	VASWAP Priority ⁷	North Atlantic Shorebird Plan ⁸	North American Waterbird Plan ⁹	Waterfowl Management Plan ¹⁰	USFWS Priority Fisheries ¹¹	TNC Chesapeake Bay Lowlands Ecoregional Plan ¹²
	Spring	Summer	Fall	Winter												
WATERBIRDS (cont.)																
Sora*	x	x	x				M									
Tricolored Heron						M	5			III		H				
Virginia Rail*	x	x	x	x						IV						
White Ibis												M				
Yellow-crowned Night Heron						M	5			III		M				
WATERFOWL																
American Black Duck*	x	x	x	x			HH	1B		II		D			2	
American Wigeon*	x		x	x			M					I				
Black Scoter							H					D				
Blue-winged Teal*	x		x	x								I				
Bufflehead*	x		x	x			H					I				
Canvasback*	x		x	x			H					I			1	
Common Goldeneye*	x		x	x			M					NT				
Common Merganser*	x		x	x								I				
Gadwall*	x		x	x			M					I				
Greater Scaup*	x		x	x			H			IV		I				
Green-winged Teal*	x		x	x			M					I				
Hooded Merganser*	x		x	x			M					I				
Lesser Scaup*	x		x	x			H					D				
Long-tailed Duck							H					D				
Mallard*	x	x	x	x			H					NT				
Northern Pintail*	x		x	x			M					D			1	
Northern Shoveler*	x		x	x								I				
Red-breasted Merganser*	x		x	x			M					I				
Redhead*	x			x						III		NT				

Species	Seasons at Presquile NWR				Federal T&E ²	VA T&E ³	BCR 30 ⁴	PIF 44 ⁵	USFWS Birds of Conservation Concern ⁶	Federal Trust Fish	VASWAP Priority ⁷	North Atlantic Shorebird Plan ⁸	North American Waterbird Plan ⁹	Waterfowl Management Plan ¹⁰	USFWS Priority Fisheries ¹¹	TNC Chesapeake Bay Lowlands Ecoregional Plan ¹²
	Spring	Summer	Fall	Winter												
WATERFOWL (cont.)																
Ring-necked Duck*	x		x	x											—	
Ruddy Duck*	x		x	x			M								—	1
Tundra Swan*	x		x	x			H							NT		1
Wood Duck*	x	x	x	x			M							—		1
LANDBIRDS																
Acadian Flycatcher*	x	x	x					1B								
American Kestrel*	x		x	x				2								
Baltimore Oriole*	x	x	x				H									
Bald Eagle*	x	x	x	x		T	M	5	X		II					
Bank Swallow*	x	x	x					5								
Barn Owl*	x	x	x	x				2			III					
Barred Owl*	x	x	x	x				5								
Black-and-white Warbler*	x	x	x				H				IV					
Black-throated Green Warbler*	x	x	x								I					
Blue-winged Warbler*	x	x	x				HH	1B	X		IV					
Broad-winged Hawk*	x		x				H									
Brown Creeper*	x		x	x							IV				2	
Brown Thrasher*	x	x	x	x			H	2			IV					
Brown-headed Nuthatch*	x			x			M	1B	X		IV					
Canada Warbler*	x		x				M		X		IV					
Carolina Chickadee*	x	x	x	x				2								
Cerulean Warbler*	x		x				M	1B	X		II					
Chimney Swift*	x	x	x				H	2			IV					
Chuck-will's-widow*	x	x	x					3			IV					
Cliff Swallow*	x	x						5								

Species	Seasons at Presquile NWR						USFWS Birds of Conservation Concern ⁶			Federal Trust Fish	VASWAP Priority ⁷	North Atlantic Shorebird Plan ⁸	North American Waterbird Plan ⁹	Waterfowl Management Plan ¹⁰	USFWS Priority Fisheries ¹¹	TNC Chesapeake Bay Lowlands Ecoregional Plan ¹²
	Spring	Summer	Fall	Winter	Federal T&E ²	VA T&E ³	BCR 30 ⁴	PIF 44 ⁵								
LANDBIRDS (cont.)																
Cooper's Hawk*	x		x	x					5							
Dickcissel*	x		x						3							
Eastern Kingbird*	x	x	x				H				IV					
Eastern Meadowlark*	x	x	x	x							IV					
Eastern Towhee*	x	x	x	x			H	2			IV					
Eastern Wood Pewee*	x	x	x					1B			IV					
Field Sparrow*	x	x	x	x			H	2			IV					
Grasshopper Sparrow*	x	x	x				M	2			IV					
Gray Catbird*	x	x	x	x			M	2			IV					
Great Crested Flycatcher*	x	x	x				H									
Kentucky Warbler*	x	x	x				H	1B	X		IV				2	
Loggerhead Shrike*	x	x	x	x		T	M	5	X		I				1	
Louisiana Waterthrush*	x	x	x				H	1B			IV					
Marsh Wren*	x	x	x	x			H		X		IV					
Northern Bobwhite*	x	x	x	x			H	2			IV					
Northern Flicker*	x	x	x	x			H									
Northern Harrier*	x		x	x				5			III					2
Northern Parula*	x	x	x								IV					
Northern Rough-winged Swallow*	x	x	x								IV					
Northern Saw-whet Owl											II					
Osprey*	x	x	x	x				5								
Ovenbird*	x	x	x								IV					
Peregrine Falcon*	x	x	x	x		T		5	X		I					
Prairie Warbler*	x	x	x				HH	1B	X		IV					

Species	Seasons at Presquile NWR				Federal T&E ²	VA T&E ³	BCR 30 ⁴	PIF 44 ⁵	USFWS Birds of Conservation Concern ⁶	Federal Trust Fish	VASWAP Priority ⁷	North Atlantic Shorebird Plan ⁸	North American Waterbird Plan ⁹	Waterfowl Management Plan ¹⁰	USFWS Priority Fisheries ¹¹	TNC Chesapeake Bay Lowlands Ecoregional Plan ¹²
	Spring	Summer	Fall	Winter												
LANDBIRDS (cont.)																
Prothonotary Warbler*	x	x	x					H	1B			IV				2
Red-headed Woodpecker*	x	x	x	x				M	2	X						
Red-shouldered Hawk*	x	x	x	x					5							
Rose-breasted Grosbeak*	x		x									IV				
Rusty Blackbird*	x		x	x				H		X		IV				
Savannah Sparrow*	x		x	x					5							
Scarlet Tanager*	x	x	x					H	2			IV				
Sedge Wren*	x		x					M	1B	X		III				
Short-eared Owl*	x		x	x				M	5	X						
Vesper Sparrow*	x	x	x						5							
Whip-poor-will*	x	x	x					H		X		IV				
White-eyed Vireo*	x	x	x						1B							
Willow Flycatcher*	x		x					H				IV				
Winter Wren*	x		x	x								II				
Wood Thrush*	x	x	x					HH	1B	X		IV				
Worm-eating Warbler*	x	x						H	1B	X		IV				2
Yellow Warbler*	x	x	x									IV				
Yellow-bellied Sapsucker*	x	x	x	x								I				
Yellow-billed Cuckoo*	x	x	x									IV				
Yellow-breasted Chat*	x	x	x						2			IV				
Yellow-rumped Warbler*	x		x	x												
Yellow-throated Warbler*	x	x	x									IV				
Yellow-throated Vireo*	x	x	x					H	1B			IV				

Species	Seasons at Presquile NWR				Federal T&E ²	VA T&E ³	BCR 30 ⁴	PIF 44 ⁵	USFWS Birds of Conservation Concern ⁶	Federal Trust Fish	VASWAP Priority ⁷	North Atlantic Shorebird Plan ⁸	North American Waterbird Plan ⁹	Waterfowl Management Plan ¹⁰	USFWS Priority Fisheries ¹¹	TNC Chesapeake Bay Lowlands Ecoregional Plan ¹²
	Spring	Summer	Fall	Winter												
SHOREBIRDS																
American Woodcock*	x	x	x	x			HH				IV	X				
Black-bellied Plover							H				IV	X				
Buff-breasted Sandpiper							H		X			X				
Dunlin*			x	x			H				IV					
Killdeer*	x	x	x	x			M					X				
Least Sandpiper*	x	x	x	x			M					X				
Lesser Yellowlegs*	x	x	x	x					X			X				
Pectoral Sandpiper												X				
Short-billed Dowitcher							H		X		IV					
Solitary Sandpiper*	x		x				H		X			X				
Spotted Sandpiper*	x	x	x				M					X				
Upland Sandpiper					T	M	IB	X		I	X					
MAMMALS																
Big Brown Bat	x	x	x	x												
Cotton Mouse	x	x	x	x							IV					
Rafinesque's Eastern Big-eared Bat	x	x	x	x	E						I					1
Southeastern Fox Squirrel											III					
AMPHIBIANS																
Barking Treefrog					T						II					2
Eastern Mud Salamander											IV					
Eastern Lesser Siren											III					
Eastern Spadefoot Toad											IVC					
Greater Siren											IV					
Many-lined Salamander											IV					

Species	Seasons at Presquile NWR					USFWS Birds of Conservation Concern ⁶	Federal Trust Fish	VSWAP Priority ⁷	North Atlantic Shorebird Plan ⁸	North American Waterbird Plan ⁹	Waterfowl Management Plan ¹⁰	USFWS Priority Fisheries ¹¹	TNC Chesapeake Bay Lowlands Ecoregional Plan ¹²
	Spring	Summer	Fall	Winter	Federal T&E ²								
REPTILES													
Common Rainbow Snake								IV					
Common Ribbonsnake								IV					
Eastern Box Turtle								III					
Eastern Hog-nosed Snake								IV					
Eastern Mudsnake								IV					
Eastern Slender Glass Lizard								IV					
Glossy Crayfish Snake								III					
Northern Diamond-Backed Terrapin								=					
Northern Scarlet Snake								IV					
Queen Snake								IV					
Spotted Turtle								III					
Southern Chorus Frog								IV					
Yellow-Bellied Slider								IV					
FISH													
American Brook Lamprey								IV					
Alewife			C				X	IV			X	I	
American Eel							X	IV			X		
American Shad								IV			X	I	
Atlantic Sturgeon			E					II			X	I	
Appalachia Darter								IV					
Banded Sunfish								IV					
Blueback Herring			C				X				X	I	
Bridle Shiner								I					
Least Brook Lamprey								IV					

Species	Seasons at Presquile NWR					USFWS Birds of Conservation Concern ⁶	Federal Trust Fish	VSWAP Priority ⁷	North Atlantic Shorebird Plan ⁸	North American Waterbird Plan ⁹	Waterfowl Management Plan ¹⁰	USFWS Priority Fisheries ¹¹	TNC Chesapeake Bay Lowlands Ecoregional Plan ¹²
	Spring	Summer	Fall	Winter	Federal T&E ²								
FISH (cont.)													
Mud Sunfish								IV					
Striped Bass							X				X	I	
Yellow Perch													-
MOLLUSKS													
Alewife Floater								IV					
Atlantic Pigtoe			T					II					
Green Floater			T					II					
Notched Rainbow								III					
Ohio Shrimp								IV					
INSECTS													
Diana Fritillary								IV					
Mottled Duskywing Butterfly								III					

Sources

*Bird species confirmed on the refuge. Source: U.S. Fish and Wildlife Service. 1993. Birds of Presquile National Wildlife Refuge, Chesterfield County, Virginia. Jamestown, ND: Northern Prairie Wildlife Research Center. Accessed June 2012 at: <http://www.npwrc.usgs.gov/presquil.htm>.

¹List of species verified or likely to occur in habitats of or around Presquile NWR. Data compiled by U.S. Fish and Wildlife Service, Virginia Fish and Wildlife Information Service, Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Virginia Herpetological Society.

²U.S. Fish and Wildlife Service. Endangered Species Program Web site. Accessed June 2012 at: <http://www.fws.gov/endangered/species/us-species.html>.

National Oceanic and Atmospheric Administration. 2012. Office of Protected Resources Web site. Accessed June 2012 at: <http://www.nmfs.noaa.gov/pr/species/>.

E – Federally Endangered; T – Federally Threatened; C - Federal Candidate

³Virginia Natural Heritage Program. Virginia Natural Heritage Program Web site. Accessed February 2011 at: http://www.dcr.virginia.gov/natural_heritage/. Updated June 2012–Amy Ewing Personal Communication.
E - Endangered; T – Threatened

⁴Steinkamp, M. 2008. Atlantic Coast Joint Venture. New England/Mid Atlantic Coast Bird Conservation Region Implementation Plan (BCR 30). Accessed April 2012 at: http://www.acjv.org/BCR_30/BCR30_June_23_2008_final.pdf.
HH - Highest Priority; H - High Priority; M - Moderate Priority

⁵Watts, B. 1999. Partners in Flight. Partners in Flight: Mid-Atlantic Coastal Plain Bird Conservation Plan (Physiographic Area #44) Version 1.0. Accessed April 2012 at: http://www.partnersinflight.org/bcps/plan/pl_44_10.pdf.
Prioritization Rankings = 1 (Highest) - 5 (Lowest).

⁶U.S. Fish and Wildlife Service. 2008. Birds of conservation concern 2008. Division of Migratory Bird Management, Arlington, Virginia. 99 pp. Accessed April 2012 at:
<http://www.fws.gov/migratorybirds/NewReportsPublications/SpecialTopics/BCC2008/BCC2008.pdf>

⁷Virginia Department of Game and Inland Fisheries. Accessed February 2011. State Wildlife Action Plan. Accessed April 2012 at: <http://bewildvirginia.org/wildlifeplan>.
Updated June 2012 – Amy Ewing Personal Communication.
I - Critical Conservation Need; II - Very High Conservation Need; III - High Conservation Need;
IV- Moderate Conservation Need

⁸Clark and Niles. 2000. North American Shorebird Plan. Atlantic Flyway Priorities. Woodbine, NJ.

⁹Kushlan, J.A., M. J. Steinkamp, K. C. Parsons, J. Capp, M. Acosta Cruz, M. Coulter, I. Davidson, L. Dickson, N. Edelson, R. Elliot ,R. M. Erwin, S. Hatch, S. Kress, R. Milko, S. Miller, K. Mills, R. Paul , R. Phillips, J. E. Saliva , B. Sydeman, J. Trapp, J. W heeler, and K. Wohl. 2002. Waterbird Conservation for the Americas: The North American Waterbird Conservation Plan, Version I. Waterbird Conservation for the Americas, Washington, DC, USA. Accessed April 2012 at: http://www.birdlife.org/action/science/species/waterbirds/pdf/nawcp_en.pdf.

¹⁰Atlantic Coast Joint Venture. February 2007. North American Waterfowl Management Plan: Continental Progress Assessment. Accessed April 2012 at: <http://www.nawmprevision.org/sites/default/files/2007ContinentalAssessment.pdf>.
Population Trend Data = I - Increasing; D - Decreasing; NT - No Trend.

¹¹U.S. Fish and Wildlife Service. 2009. Fisheries Priorities by HUC04.

¹²The Nature Conservancy. 2002. Draft Version: Chesapeake Bay Lowlands Ecoregional Plan. 180 pp. Accessed April 2012 at: http://conserveonline.org/docs/2007/03/CBYplan_070130.pdf.
1 - Primary Priority; 2 - Secondary Priority